



Review of activities on Vegetable production

Biophysical data on Improved African Eggplant, Tomato and Vegetable cowpea Varieties

Alpha Sidy Traore,
World Vegetable Center *11-13 March 2019,*
Sikasso-Mali



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Outcome no._ 1	Output no._ _1.1	Activity no._ _1.1.1
Sub-activity title	1. MA1116-17: 2. Disseminate promising technologies tested over the past two years (2016-2017) to intensify vegetable mono-cropping in off-season	
Location/sites for sub-activity	1. Bougouni, Koutiala (Mali)	
Implementation timeframe (start/end date)	1. 1 October 2018 – 31 March 2019	
Deliverables achieved/ongoing	1. Field trials established 2. Database on vegetables 3. Field days organized/Exchange visit	1. Gender evaluation
Crops involved across seasons	Rainy season 1. African eggplant 2. Vegetable cowpea 3. Tomato	Dry season 1. African eggplant 2. Vegetable cowpea 3. Tomato 4. Onion



Sub-activity: MA1116-17

Objective:

Disseminate promising technologies tested over the past two years (2016-2017) to intensify vegetable mono-cropping in the off-season



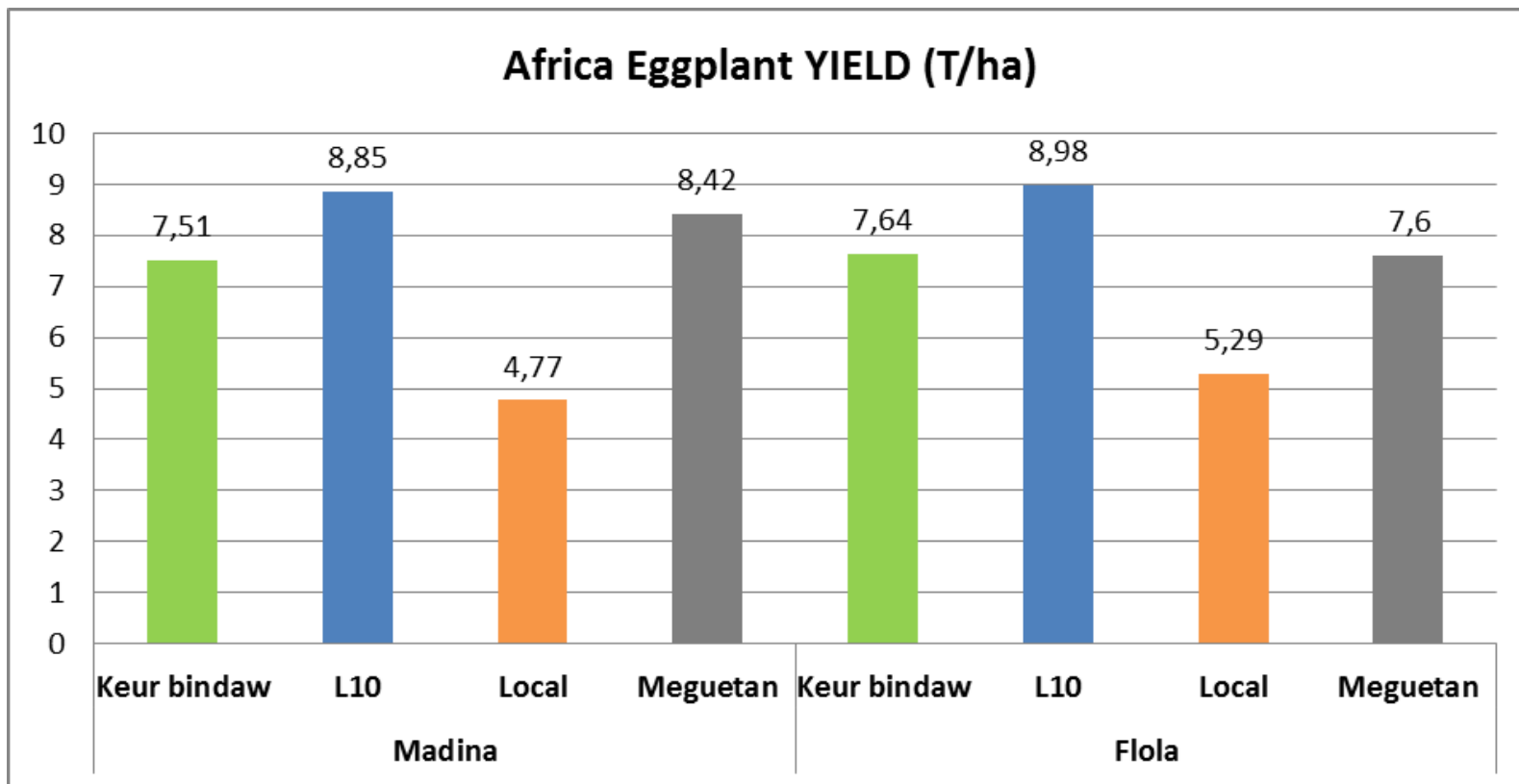
Specific objectives

- Evaluate varieties of farmers' and market preferred vegetable species under rainfed and irrigated conditions through farmer participatory approaches
- Promote information and knowledge exchange among farmers.
- Train farmers on good agricultural practices in vegetable garden techniques, post-harvest.



Methodology

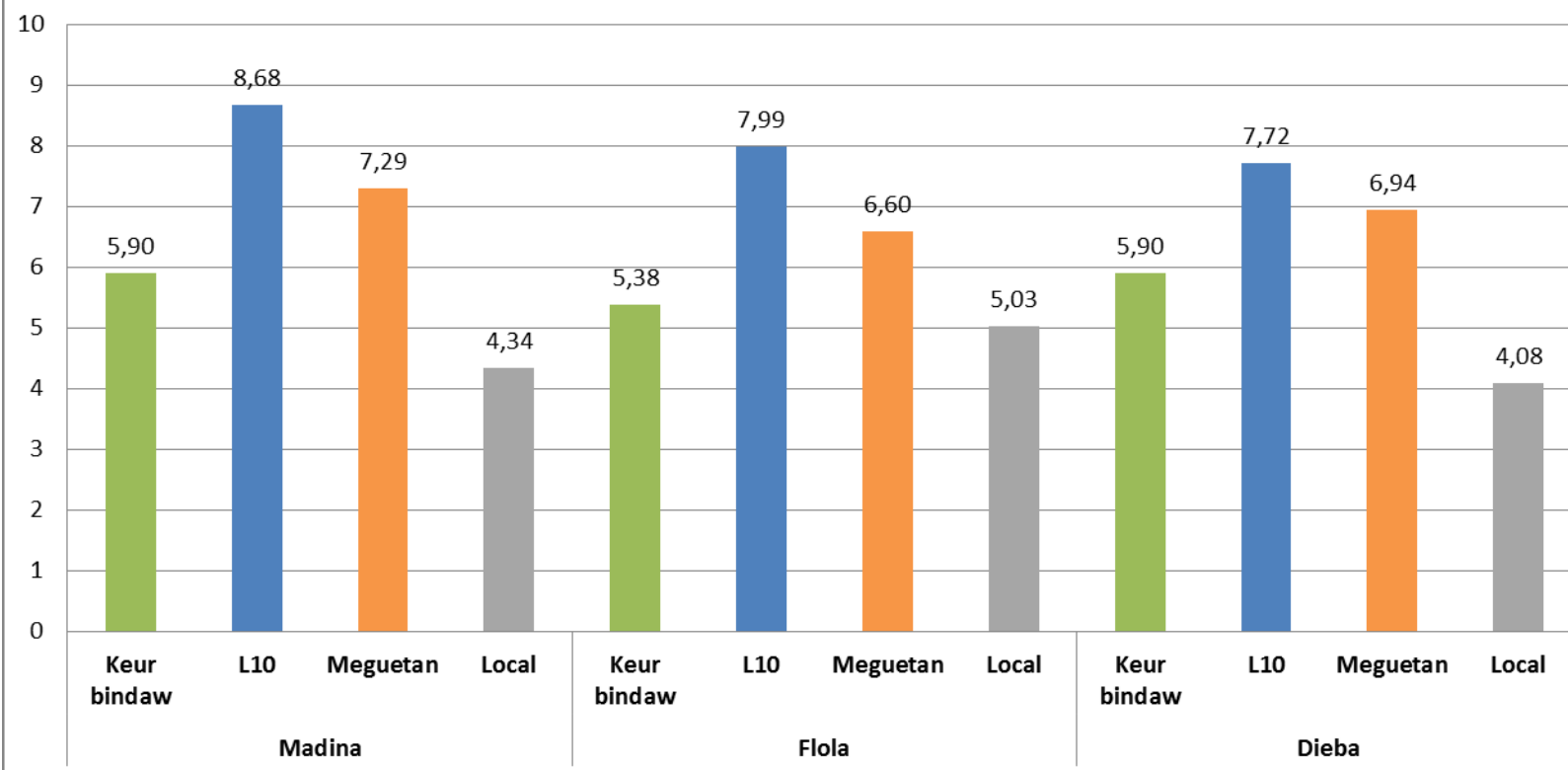
- 90 Farmers involved in trials and demonstration activities in Dieba, Flola, Madina, Sibirila and Sirakele (Bougouni District), Zanzoni M'pessoba, N'Golonianasso, Nampossela (Koutiala district).
- Trials :
 - Trials on Africa eggplant, Vegetable cowpea, Tomato and Onion with for 4 replication established in the technology park;
3 improved varieties of each species including farmers' variety as control variety.
 - Demonstration :
Each farmer will test a single replicate of the above varieties.



Yields (T ha^{-1}) of Africa Eggplant varieties trials in 2018 Humid season in the villages of Bougouni, Mali



Africa Eggplant YIELD (T/ha)

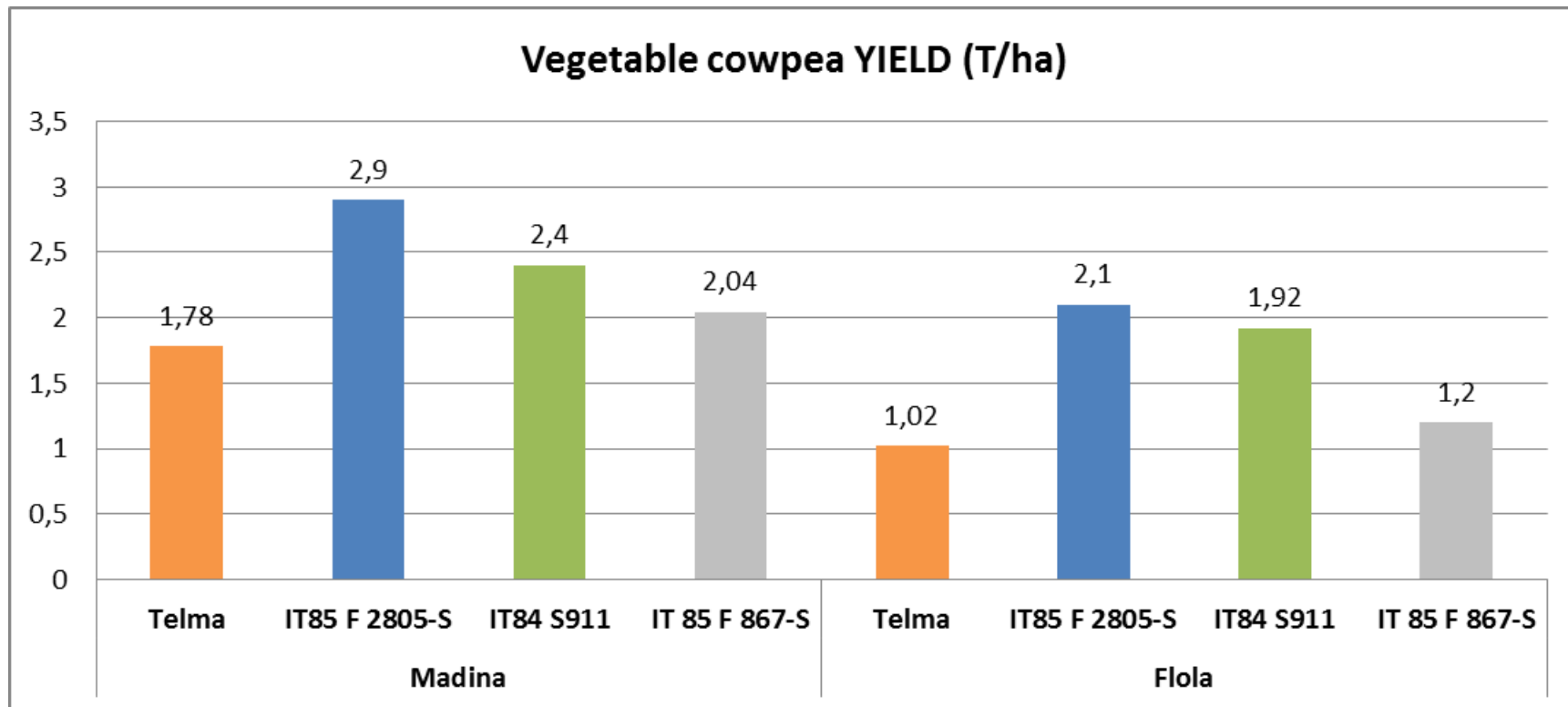


Yields (T ha^{-1}) of Africa eggplant varieties demonstration in 2018 humid season in villages of Bougouni, Mali



African Eggplant man farmer at harvest (left) and African eggplant woman farmer (right) at harvest in the technology park of Koutiala (Mali, December 2018)

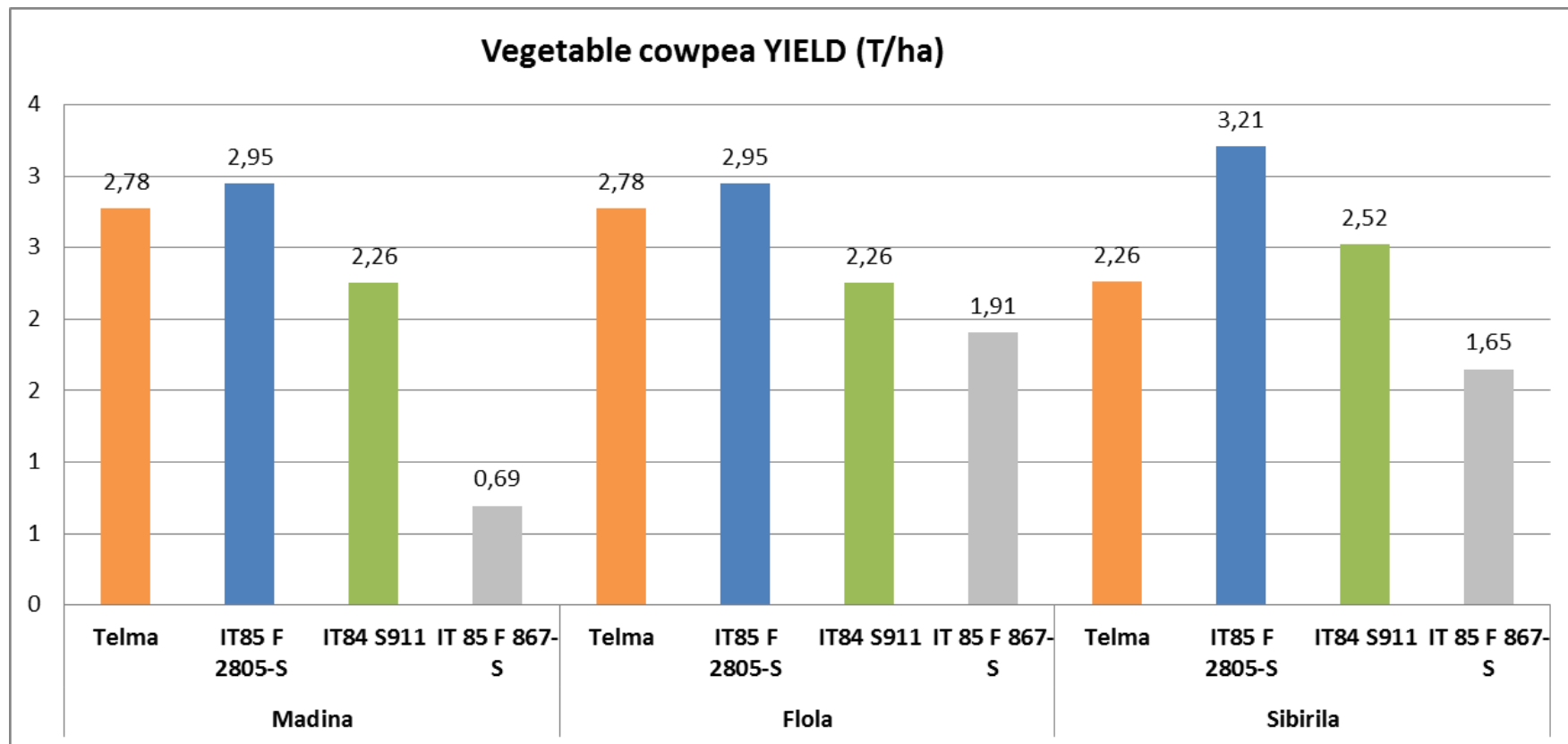




Yields (T ha⁻¹) of vegetable cowpea varieties trials in 2018 humid season in villages of Bougouni, Mali



Vegetable cowpea YIELD (T/ha)

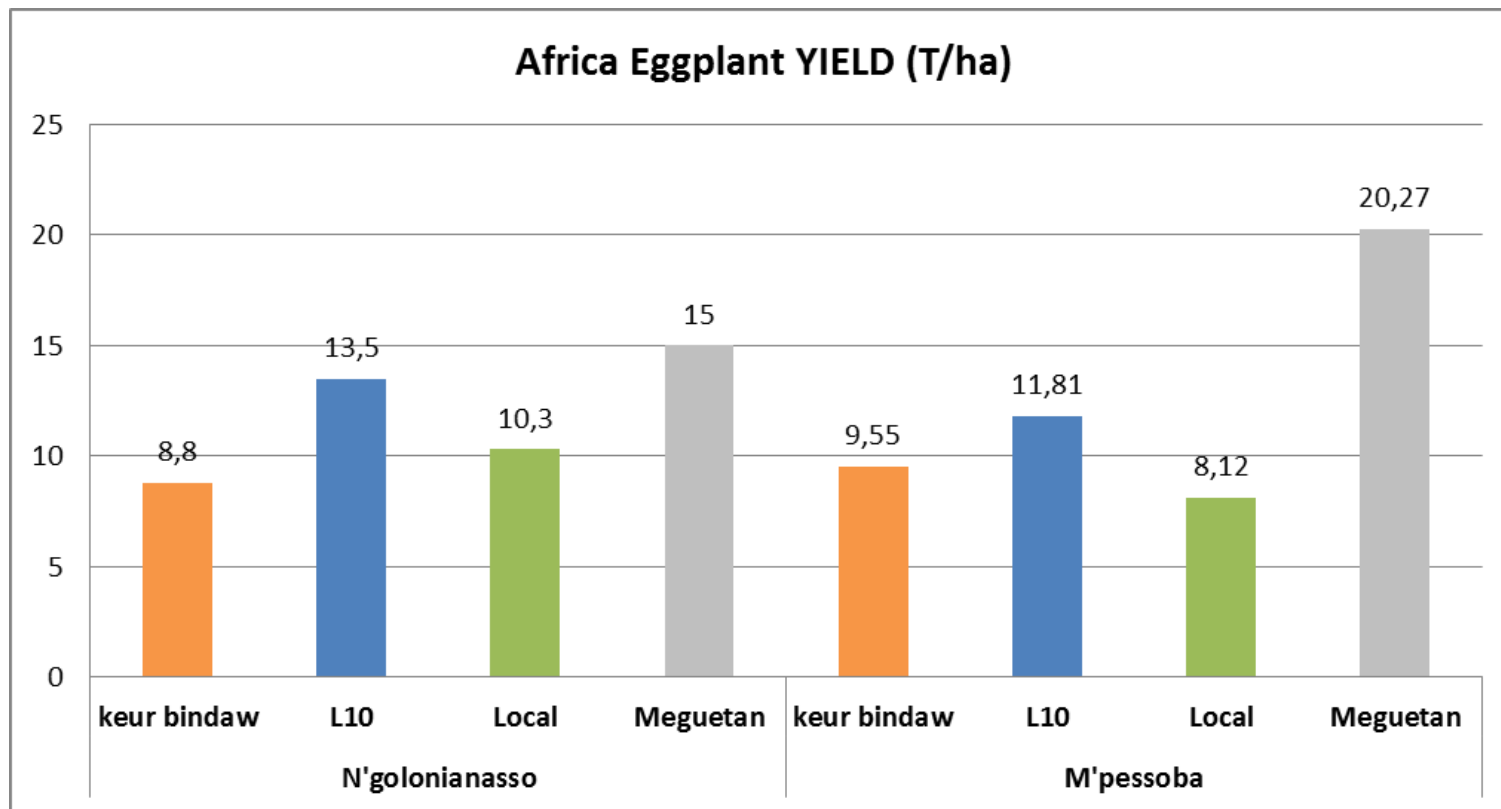


Yields (T ha⁻¹) of vegetable cowpea varieties in the demonstration in 2018 humid season in villages of Bougouni, Mali

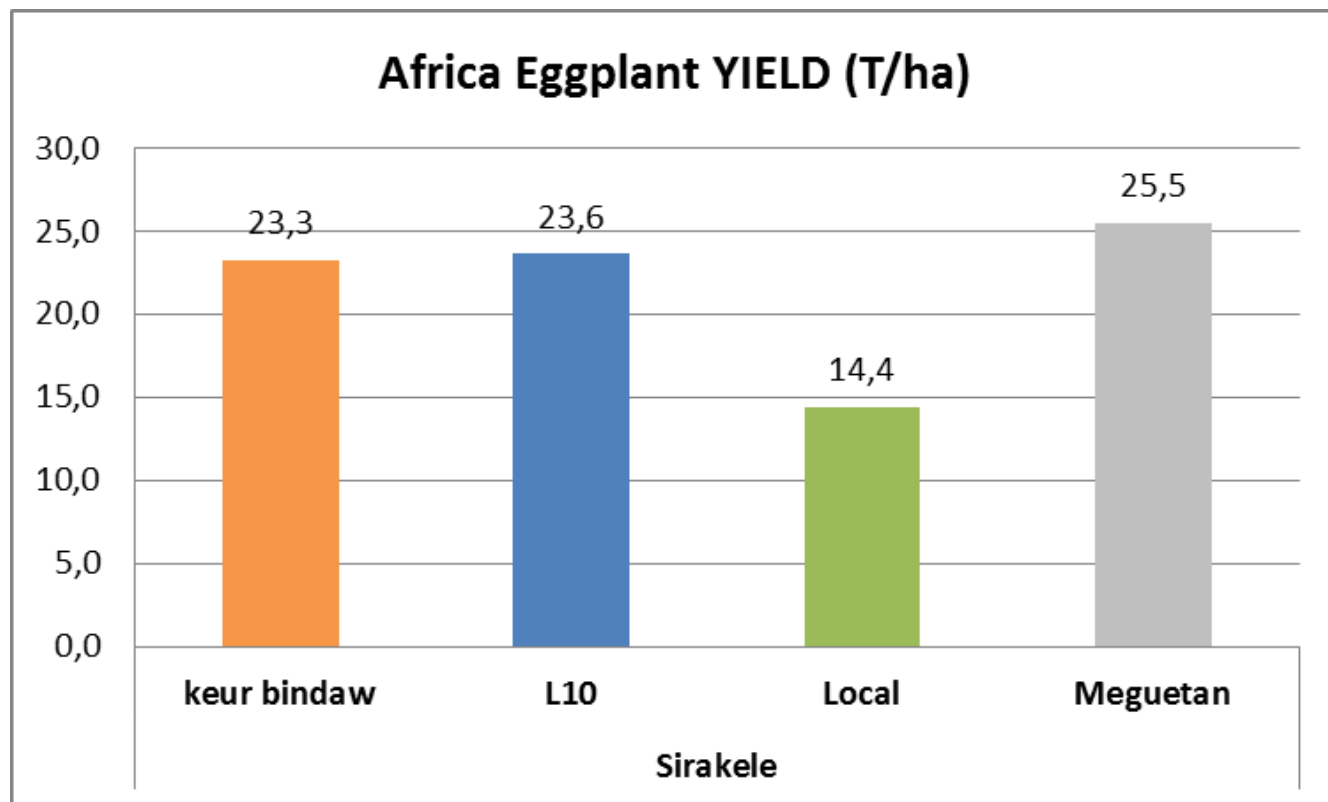


Vegetable cowpea variety demonstration plot during field visit in Madina (Mali, october 2018)

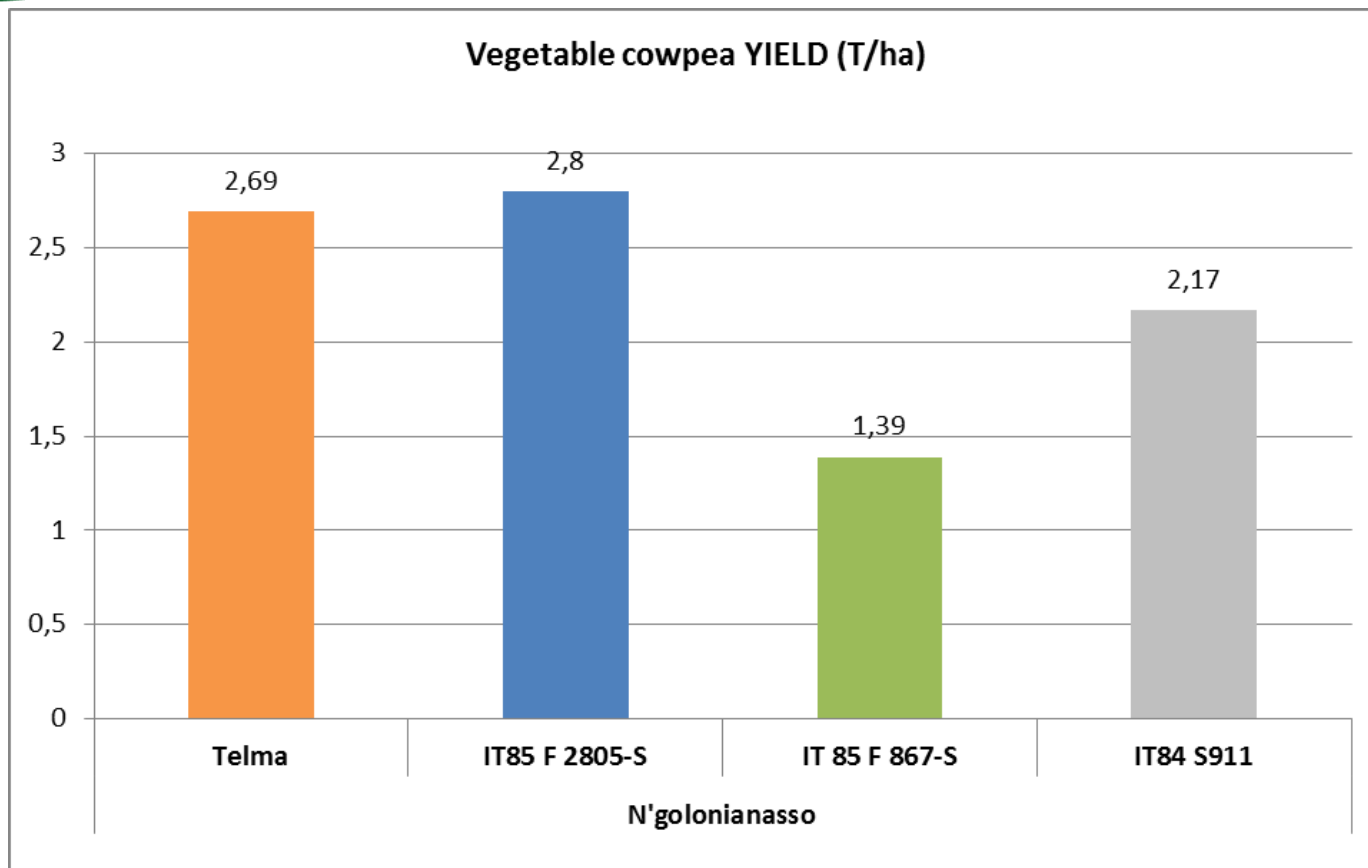




Yields (T ha⁻¹) of Africa Eggplant varieties trials in 2018 Humid season in the villages of Koutiala, Mali



Yields (T ha^{-1}) of Africa eggplant varieties demonstration in 2018 humid season in villages of Koutiala, Mali

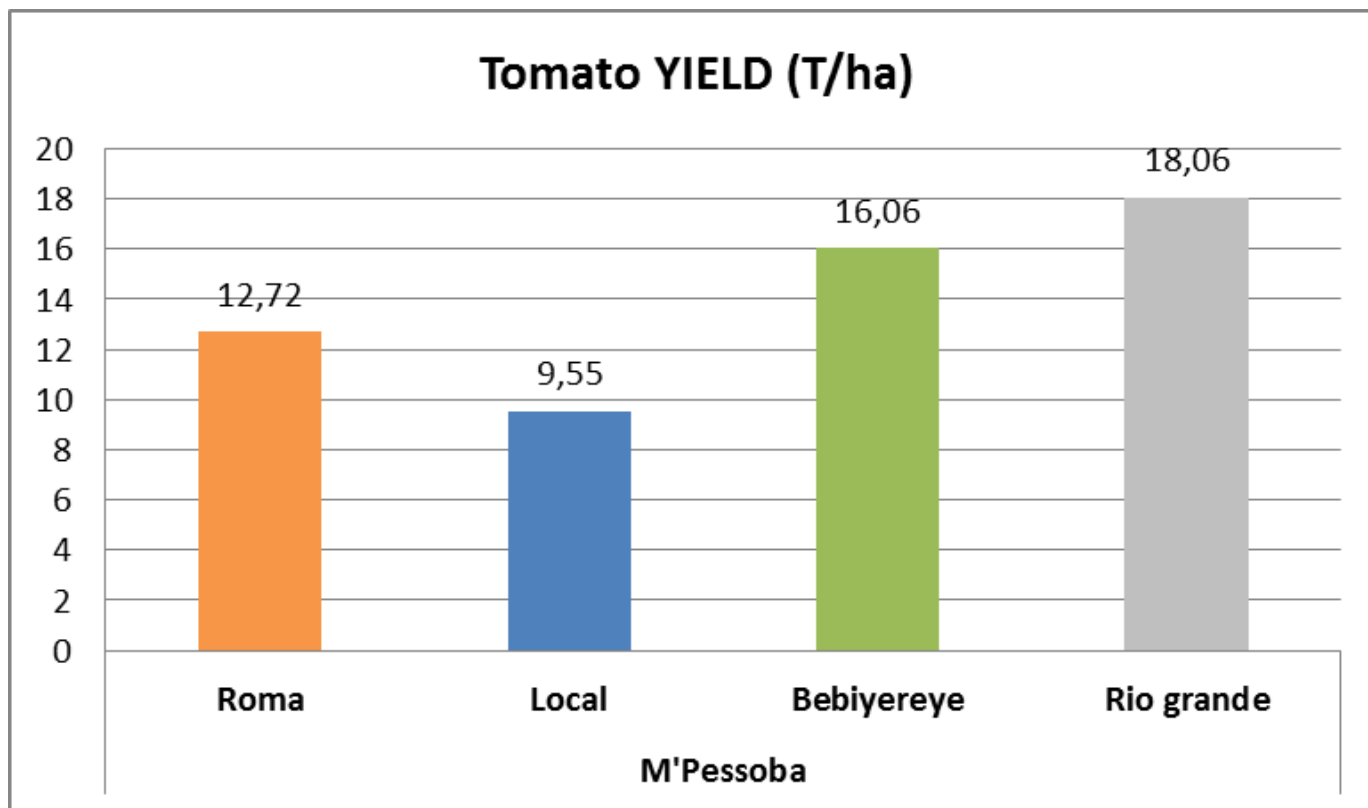


Yields (T ha^{-1}) of vegetable cowpea varieties trials in 2018 humid season in villages of Koutiala, Mali

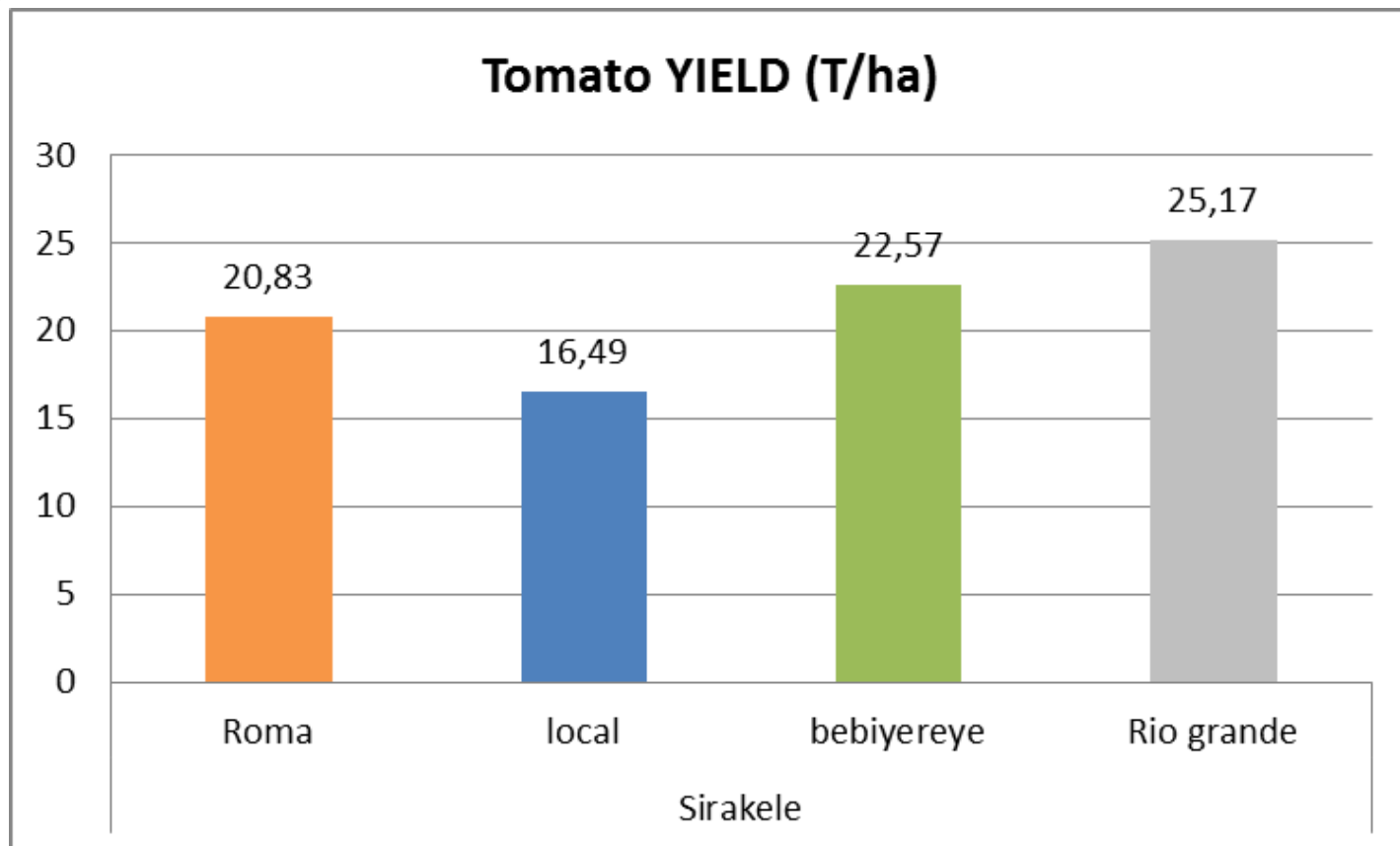


African eggplant variety L10 demonstration plot during field visit in N'golonianasso in Koutiala (Mali, January 2019)





Yields (T ha^{-1}) of Tomato varieties trials in 2018 Humid season in the villages of Koutiala, Mali



Yields (T ha^{-1}) of Tomato varieties in the demonstration 2018
Humid season in the villages of Koutiala, Mali



Conclusion on variety trial and demonstrations

Farmers' preferred varieties in Bougouni and Koutiala:

- ❑ **African eggplant** : variety L10 – high yield, good taste,
- ❑ **Tomato** : variety Rio Grande for yield and conservation.
- ❑ **Vegetable Cowpea**: variety IT85F 2805-S and Telma - high yield / **Organoleptic characteristics?**



Other activities achieved/ongoing

Training and exchange visit was implemented for 60 women and 30 men in Bougouni and Koutiala districts on good agricultural on vegetable production in February 2019





Gender evaluation

PRODUCTIVITY	ECONOMIC DOMAIN	ENVIRONMENT	HUMAN DOMAIN	SOCIAL DOMAIN
Productivity of varieties	Income <ul style="list-style-type: none"> -Variability across seasons -Household decision-Making on income 	Use of pesticides <ul style="list-style-type: none"> - Disease resistance (Varieties) - Knowledge of application 	Dietary diversity <ul style="list-style-type: none"> - Consumption of own vegetable - Purchase of food from vegetable -Household consumption patterns 	Collective action: <ul style="list-style-type: none"> - Participation in Groups -Leadership - Aims of groupe
Post-Harvest losses <ul style="list-style-type: none"> - Storability of varieties - Storage space, cooling, transport 	Inputs <ul style="list-style-type: none"> - Prices - Availability -Quality 	Water availability <ul style="list-style-type: none"> - Water access - Distance to water Sources 		Access to information
Cultivation periode (S) <ul style="list-style-type: none"> - Number/lenght of periodes - Number/lenght of periodes -Access to land, irrigation 	Labor <ul style="list-style-type: none"> - Gender division of labor -Requirements of new magagement pratices 			
	Market orientation + Participation <ul style="list-style-type: none"> - Commercialization VS. Consumption - Customer orientation (color, size, shape, taste, texture) - Obstacles to value chain participation 			



Thank You

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